

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 09/910,354C
Source: IFw/b
Date Processed by STIC: 6/19/06

ENTERED



IFW16

RAW SEQUENCE LISTING DATE: 06/19/2006
PATENT APPLICATION: US/09/910,354C **TIME:** 13:57:13

Input Set : A:\Mod-0032.ST25.txt
Output Set: N:\CRF4\06192006\I910354C.raw

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3 <110> APPLICANT: Jarrell, et al., Kevin
5 <120> TITLE OF INVENTION: Modular Vector Systems
7 <130> FILE REFERENCE: 2003320-0032
9 <140> CURRENT APPLICATION NUMBER: 09/910,354C
10 <141> CURRENT FILING DATE: 2001-07-20
12 <160> NUMBER OF SEQ ID NOS: 24
14 <170> SOFTWARE: PatentIn version 3.2
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 23
18 <212> TYPE: DNA
19 <213> ORGANISM: Artificial
21 <220> FEATURE:
22 <223> OTHER INFORMATION: PCR primer EU-1 for amplification of a vector fragment
containing
23      bacterial origin of replication, Lac I gene, and pT7 promoter.
25 <400> SEQUENCE: 1
26 cauggtatat ctccttctta aag
29 <210> SEQ ID NO: 2
30 <211> LENGTH: 22
31 <212> TYPE: DNA
32 <213> ORGANISM: Artificial
34 <220> FEATURE:
35 <223> OTHER INFORMATION: PCR primer Eu-2 for amplification of a vector fragment
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36      bacterial origin of replication, Lac I gene, and pT7 promoter.
38 <400> SEQUENCE: 2
39 cucatgacca aaatccctta ac
42 <210> SEQ ID NO: 3
43 <211> LENGTH: 22
44 <212> TYPE: DNA
45 <213> ORGANISM: Artificial
47 <220> FEATURE:
48 <223> OTHER INFORMATION: PCR primer EU-3 for amplification of a vector fragment
containing
49      Amp gene.
51 <400> SEQUENCE: 3
52 gagattatca aaaaggatct tc
55 <210> SEQ ID NO: 4
56 <211> LENGTH: 20
57 <212> TYPE: DNA
58 <213> ORGANISM: Artificial
60 <220> FEATURE:
61 <223> OTHER INFORMATION: PCR primer EU-4 for amplification of a vector fragment
containing

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62 Amp gene.
64 <400> SEQUENCE: 4
65 uaactagcat aaccccttgg

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68 <210> SEQ ID NO: 5
 69 <211> LENGTH: 21
 70 <212> TYPE: DNA
 71 <213> ORGANISM: Artificial
 73 <220> FEATURE:
 74 <223> OTHER INFORMATION: PCR primer 5' Lac Z for amplification of an insert fragment
 75 containing Lac Z gene.
 77 <400> SEQUENCE: 5
 78 augaccatga ttacgcacac g 21
 81 <210> SEQ ID NO: 6
 82 <211> LENGTH: 22
 83 <212> TYPE: DNA
 84 <213> ORGANISM: Artificial
 86 <220> FEATURE:
 87 <223> OTHER INFORMATION: PCR primer 3' Lac Z for amplification of an insert fragment
 88 containing Lac Z gene.
 90 <400> SEQUENCE: 6
 91 uuacaatttc cattcgccat tc 22
 94 <210> SEQ ID NO: 7
 95 <211> LENGTH: 37
 96 <212> TYPE: DNA
 97 <213> ORGANISM: Artificial
 99 <220> FEATURE:
 100 <223> OTHER INFORMATION: PCR primer 5' OST for amplifying an Ori fragment from pET 19
 b.
 102 <400> SEQUENCE: 7
 103 ctgctaagtgc agcucgacag atcgctgaga taggtgc 37
 106 <210> SEQ ID NO: 8
 107 <211> LENGTH: 36
 108 <212> TYPE: DNA
 109 <213> ORGANISM: Artificial
 111 <220> FEATURE:
 112 <223> OTHER INFORMATION: PCR primer 1N 3' Ori(s) for amplifying an Ori fragment from
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 113 19b.
 115 <400> SEQUENCE: 8
 116 aagcttgcta agtagggcgt tttccatag gctccg 36
 119 <210> SEQ ID NO: 9
 120 <211> LENGTH: 36
 121 <212> TYPE: DNA
 122 <213> ORGANISM: Artificial
 124 <220> FEATURE:
 125 <223> OTHER INFORMATION: PCR primer 1NT5'KAN for amplifying a fragment containing the
 126 kanamycin resistance gene from pCR2.1 topo.
 128 <400> SEQUENCE: 9
 129 ctaccttagca agcttctatc tggacaaggaaaacg 36
 132 <210> SEQ ID NO: 10
 133 <211> LENGTH: 41
 134 <212> TYPE: DNA
 135 <213> ORGANISM: Artificial
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138 <223> OTHER INFORMATION: PCR primer T73' KAN for amplifying a fragment containing the
 139 kanamycin resistance gene from pCR2.1 topo.
 141 <400> SEQUENCE: 10
 142 ccctatacgatg agtcgttata aggcgaaaac tctcaaggat c 41
 145 <210> SEQ ID NO: 11
 146 <211> LENGTH: 42
 147 <212> TYPE: DNA
 148 <213> ORGANISM: Artificial
 150 <220> FEATURE:
 151 <223> OTHER INFORMATION: PCR primer tcs1 for amplifying a fragment containing the
 152 luciferase gene from pG1 II basic.
 154 <400> SEQUENCE: 11
 155 ttaatacgcac tcactatagg gatggaaagac gccaaaaaca ta 42
 158 <210> SEQ ID NO: 12
 159 <211> LENGTH: 36
 160 <212> TYPE: DNA
 161 <213> ORGANISM: Artificial
 163 <220> FEATURE:
 164 <223> OTHER INFORMATION: PCR primer tc58 for amplifying a fragment containing the
 165 luciferase gene from pG1 II basic.
 167 <400> SEQUENCE: 12
 168 gagctcactt agcagttaca atttggactt tccgcc 36
 171 <210> SEQ ID NO: 13
 172 <211> LENGTH: 36
 173 <212> TYPE: DNA
 174 <213> ORGANISM: Artificial
 176 <220> FEATURE:
 177 <223> OTHER INFORMATION: PCR primer 1NT 5'KAN for amplifying a fragment containing
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 178 kanamycin resistance gene from pCR 2.1 topo.
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 184 <210> SEQ ID NO: 14
 185 <211> LENGTH: 33
 186 <212> TYPE: DNA
 187 <213> ORGANISM: Artificial
 189 <220> FEATURE:
 190 <223> OTHER INFORMATION: PCR primer 1NT 3'KAN for amplifying a fragment containing
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 193 <400> SEQUENCE: 14
 194 gagctcactt agcaaggcgaaactctcaa gga 33
 197 <210> SEQ ID NO: 15
 198 <211> LENGTH: 37
 199 <212> TYPE: DNA
 200 <213> ORGANISM: Artificial
 202 <220> FEATURE:
 203 <223> OTHER INFORMATION: PCR primer 1NT5' Ori for amplifying a fragment containing
 the Ori
 204 from pET 19b.
 206 <400> SEQUENCE: 15
 207 ttgctaaggatg agcucgacag atcgctgaga taggtgc 37

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the

210 <210> SEQ ID NO: 16
211 <211> LENGTH: 36
212 <212> TYPE: DNA
213 <213> ORGANISM: Artificial
215 <220> FEATURE:
216 <223> OTHER INFORMATION: PCR primer 1N3'Oris) for amplifying a fragment containing
the
217 Ori from pET 19b
219 <400> SEQUENCE: 16
220 aagcttgcta agtagggcgt ttttccatag gctccg 36
223 <210> SEQ ID NO: 17
224 <211> LENGTH: 37
225 <212> TYPE: DNA
226 <213> ORGANISM: Artificial
228 <220> FEATURE:
229 <223> OTHER INFORMATION: PCR primer 3nt 5'OST for amplifying an Ori fragment.
231 <400> SEQUENCE: 17
232 ctgcttaagtg agcucgcacag atcgctgaga taggtgc 37
235 <210> SEQ ID NO: 18
236 <211> LENGTH: 36
237 <212> TYPE: DNA
238 <213> ORGANISM: Artificial
240 <220> FEATURE:
241 <223> OTHER INFORMATION: PCR primer 3nt 5'OST for amplifying an Ori fragment.
243 <400> SEQUENCE: 18
244 aagcttgcta gguaggctac gtcttgctgg cgttcg 36
247 <210> SEQ ID NO: 19
248 <211> LENGTH: 36
249 <212> TYPE: DNA
250 <213> ORGANISM: Artificial
252 <220> FEATURE:
253 <223> OTHER INFORMATION: PCR primer 3nt 5'KHT for amplifying a KAN fragment.
255 <400> SEQUENCE: 19
256 ctaccttagca agcuuctatc tggacaaggg aaaacg 36
259 <210> SEQ ID NO: 20
260 <211> LENGTH: 35
261 <212> TYPE: DNA
262 <213> ORGANISM: Artificial
264 <220> FEATURE:
265 <223> OTHER INFORMATION: PCR primer 3nt 3'KST for amplifying an Ori(s) fragment.
267 <400> SEQUENCE: 20
268 gagctcaattt agcagggcga aaactctcaa ggatc 35
271 <210> SEQ ID NO: 21
272 <211> LENGTH: 37
273 <212> TYPE: DNA
274 <213> ORGANISM: Artificial
276 <220> FEATURE:
277 <223> OTHER INFORMATION: PCR primer 1NT 5'ORI for amplifying an Ori(s) fragment.
279 <400> SEQUENCE: 21
280 ttgcttaagtg agctcgacag atcgctgaga taggtgc 37

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Input Set : A:\Mod-0032.ST25.txt

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283 <210> SEQ ID NO: 22
284 <211> LENGTH: 36
285 <212> TYPE: DNA
286 <213> ORGANISM: Artificial
288 <220> FEATURE:
289 <223> OTHER INFORMATION: PCR primer 1NT3' Ori(s) for amplifying an Ori(s) fragment.
291 <400> SEQUENCE: 22
292 aagcttgcta ggttagggcgt ttttccatag gctccg 36
295 <210> SEQ ID NO: 23
296 <211> LENGTH: 36
297 <212> TYPE: DNA
298 <213> ORGANISM: Artificial
300 <220> FEATURE:
301 <223> OTHER INFORMATION: PCR primer 1NT 5'KAN for amplifying an KAN fragment.
303 <400> SEQUENCE: 23
304 ctaccttagca agctuctatc tggacaaggaa 36
307 <210> SEQ ID NO: 24
308 <211> LENGTH: 33
309 <212> TYPE: DNA
310 <213> ORGANISM: Artificial
312 <220> FEATURE:
313 <223> OTHER INFORMATION: PCR primer 1NT3'KAN for amplifying an Ori(s).
315 <400> SEQUENCE: 24
316 gagctcactt agccaggcgaa 33
aaactctcaa gga

RAW SEQUENCE LISTING ERROR SUMMARY
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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24

VERIFICATION SUMMARY

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